

Amendments to the Specification:

Please replace paragraph 10 on pages 2 and 3 with the following rewritten paragraph:

Figure 1 is a cut-away view of the electric motor 10 of the present invention. The electric motor 10 includes a stator 12 and rotor 14 separated by an air gap 16. In alternate embodiments of the present invention the air gap may be filled with a cooling fluid 26 to conduct heat from the rotor 14 to the stator 12. The electric motor of the present invention is preferably an AC induction motor with a squirrel cage rotor, but any electric motor technology is considered within the scope of the present invention including, but not limited to, synchronous motors, reluctance motors, DC motors, DC brushless motors, and AC permanent magnet rotor motors. The rotor 14 in the preferred embodiment is an aluminum squirrel cage equipped with steel laminations. The electric motor 10 further includes a hollow motor shaft 18 coupled to the rotor 14. The hollow motor shaft 18 will transfer the rotational motion of the rotor 14 to an external device. A permanent magnet 15 is shown mounted to the rotor, in an alternate embodiment, as is known in the art. A plurality of such permanent magnets 15 is preferably mounted to the rotor of a permanent magnet machine.